(12)

BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Kodigehalli Sub Division

Name of the work: **Asphalting to roads in Tatanagara in ward no. 08, kodigehalli**

			Estimate Cost: Rs.				2000000.00		
Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH V revision (Page No. 158, Item No. 21.3, PWD SR 2018-19)								
	Tatanagara 11th main road	Sqm	1	175.00	6.90		1207.50		
	Tatanagara 8th cross road	Sqm	1	115.00	6.70		770.50		
		Sqm		290.00			1978.00	133.56	264182.00
	Basic Rate	126.00							
	Area Weightage @ 6%	7.56							
	Total	133.56							
2	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications (Page No. 155, Item No. 20.18, PWD SR 2018-19)								
	Tatanagara 11th main road	Cum	1	175.00	6.90	0.150	181.13		
	Tatanagara 8th cross road	Cum	1	115.00	6.70	0.150	115.58		
							296.70	2001.28	593780.00
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	2001.28							
3	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 (Page No. 158, I. 21.1, PWDSR 2018-19)								
	Qty vide item No. 18	Sqm	1				1978.00		
							1978.00	22.26	44030.00
	Basic Rate	21.00							
	Area Weightage @ 6%	1.26							
	Total	22.26							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB M500-6: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502 (Page No. 158, Item No. 21.5, PWD SR 2018-19)								
	Qty vide item No. 21	Sqm	1				1978.00		
							1978.00	46.64	92254.00
	Basic Rate	44.00							
	Area Weightage @ 6%	2.64							
	Total	46.64							
5	KSRRB M500-18: Providing and laying bituminous macaduam on prepared surface using crushed aggregates as per design mix formula for base/binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hotl mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. Using 40-60 TPH capacity HMP with mechanical paver grading II (50-75mm) with 3.4% VG-30 bitumen. (Page No. 159, Item No. 21.11.6, PWD SR 2018-19)								
	for profile correction and depression filling								
	Tatanagara 11th main road	Cum	1	175.00	1.50	0.050	13.13		
	Tatanagara 8th cross road	Cum	1	115.00	1.50	0.050	8.63		
							21.75	6172.38	134249.00
	Basic Rate	5823.00							
	Area Weightage @ 6%	349.38							
	Total	6172.38							
6	KSRRB M500-18: Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. using 40-60 TPH capacity HMP with mechanical paver grading I (35-40mm) with 4.5% VG-30 Bitumen (Page No. 160, Item No. 21.20.5, PWD SR 2018-19)								
	Tatanagara 11th main road	Cum	1	175.00	6.90	0.040	48.30		
	Tatanagara 8th cross road	Cum	1	115.00	6.70	0.040	30.82		
				290.00			79.12	7717.86	610637.00
	Basic Rate	7281.00							
	Area Weightage @ 6%	436.86							
	Total	7717.86							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 182, Item No. 24.15 PWDSR 2018-19)								
	Tatanagara 11th main road	sqm	2	175.00	0.10		35.00		
	Tatanagara 8th cross road	sqm	2	115.00	0.10		23.00		
				290.00			58.00	454.74	26375.00
	Basic Rate Rs.	429.00							
	Area Weightage @ 6%	25.74							
	Total	454.74							
8	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means .inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)								
	Qty vide item No. 3*0.85 and 12*0.075	Cum					148.35	101.12	15002.00
	Basic rate for haulage of materials as per item no.17.4 page 136) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2.00X1.28X15.00	38.40							
	Add loading and unloading Vide item no.17.1 P.no.134	57.00							
		95.40							
	Area Weightage @ 6%	5.72							
	Total	101.12							
9	Sub Total-1							EE(BTP)	1780509.0
10	Add GST charges at 12%						12.00		213661.00
11	Miscellaneous & Rounding off							L/S	5830.00
	Total Rs								2000000.00

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 77 Date 25/07/19
AE
EE(BTP)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.
5 This work has not been taken previously under any other grant.

Assistant Engineer
Ward no. 08
Kodigehalli

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatrayanapura Division
BBMP
25/07

Administrative Approval
Accorded For ...Rs.....
Head of A/C...1771.....
CER NO :...83..... Dt.25.07.19

JA CE (YNK)